INSTALLATION INSTRUCTIONS

CE 0088

for the

Assistant's Cart (Delivery System)

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003-120600 Rev. A

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INSTALLATION INSTRUCTIONS for the *Assistant's Cart (Delivery System)*

SECTION I - REQUIREMENTS

1. PHYSICAL REQUIREMENTS

Before installing, ensure that the physical requirements of the unit are met (See Figure 1).

2. ELECTRICAL REQUIREMENTS

Before connecting the line cord to an appropriate receptacle, make certain that the circuit is protected by a 7.5-amp breaker for 240-VAC models. Ensure that all wiring is grounded and all electrical codes are observed.

WARNING - Potential shock hazard with possible personal injury. To reduce shock hazard, observe all electrical codes.

3. WATER SUPPLY REQUIREMENTS

A 1/2 I.D. copper supply line, reduced to 3/8" O.D. copper tubing as near the shut-off valve as possible is required. The water pressure should be in the range of 30-50 psi. A suitable pressure reducing valve is essential for trouble free operation if the pressure exceeds the recommended range.

4. AIR SUPPLY REQUIREMENTS

A 1/2" I.D. copper supply line reduced to 3/8" O.D. copper tubing as near the shut-off valve as possible is required.

The air pressure must be between 75-100 psi at the valves. A pressure reducer should be installed if the pressure exceeds 100 psi.

For maximum life and trouble free operation, the air supply must be clean and dry. It is recommended that a moisture separator and filter be installed as near the connection as possible and accessible for periodic cleaning.

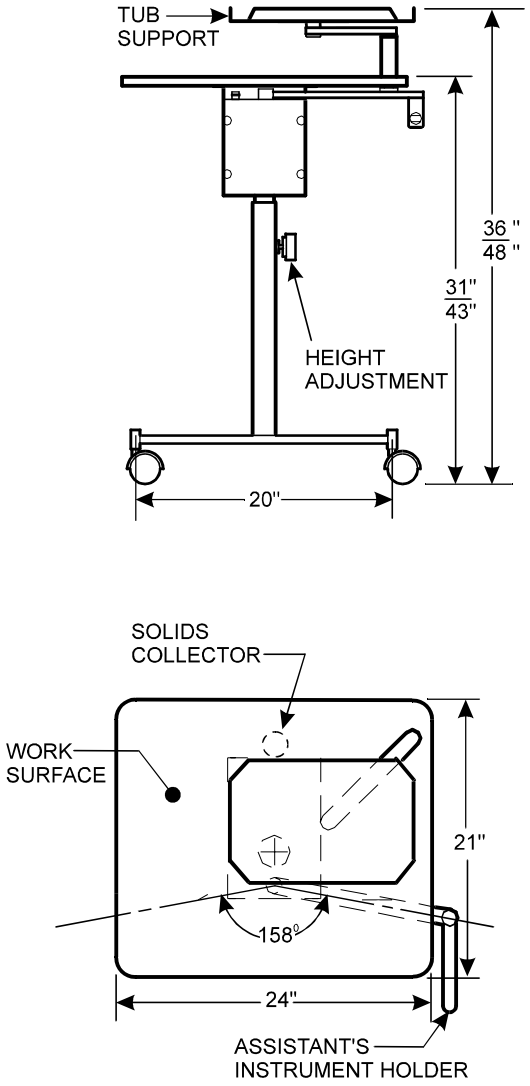

Figure 1

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SECTION II - INSTALLATION

1. UNPACKING THE CARTONS

The assistant's cart is shipped in a carton containing the following items:

- Assistants cart
- Tub support assembly
- Large work surface with hardware
- Utilities connection box (J box), hardware instructions and installation plan TP1191
- Installation instructions (this manual), an operator's manual, and warranty card

Check for signs of damage to the carton or to the contents. Make sure all items listed above are present. If there is any evidence of damage due to shipping or if any of the items are missing from the carton, notify the shipper at once. Be careful not to discard any small parts or instruction sheets with the packing material.

2. UTILITIES CONNECTION BOX (J BOX) INSTALLATION

To install the J box use the installation plan TP1191 supplied with the connection box. This plan may be used as a template to locate the utilities for connection. The installation of the utilities connection box should be performed by a qualified technician.

Please consider the following before beginning:

- The connection box can be installed anywhere in the room within the range of the 8 foot umbilical that will connect the box to the unit. Locate the box where the incoming service lines will not cause an obstruction.
- Air and water are the only services required unless a heated syringe or lighted handpieces are to be used.
- Waste lines, vacuum lines or auxiliary low voltage wiring are not necessary unless separate devices requiring these services are to be used.
- The location of the incoming services on the installation plan are suggestions and can be altered to suit the situation.

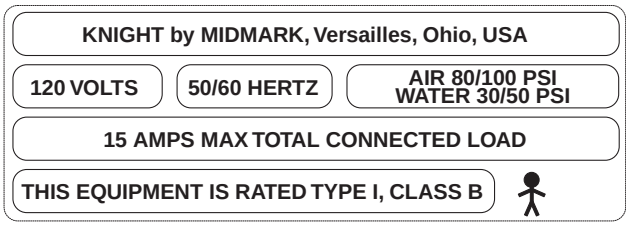
3. ELECTRICAL CONNECTIONS TO THE CONNECTION BOX (J BOX)

Domestic - Make the electrical connections to the J box as shown in Instruction TPW1487.

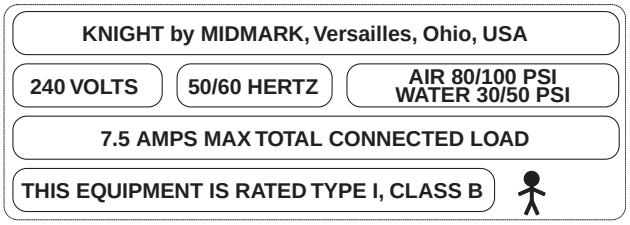
International - Make the electrical connections to the J box as shown in Instruction TPW1511. These J boxes have accessible fuses located on the front of the box.

DANGER: Turn off all electrical power at the power source before making primary electrical connections.

RATING FOR 120 VOLT UNIT


KNIGHT by MIDMARK, Versailles, Ohio, USA
120 VOLTS
50/60 HERTZ
AIR 80/100 PSI
WATER 30/50 PSI
15 AMPS MAX TOTAL CONNECTED LOAD
THIS EQUIPMENT IS RATED TYPE I, CLASS B

RATING FOR 240 VOLT UNIT


KNIGHT by MIDMARK, Versailles, Ohio, USA
240 VOLTS
50/60 HERTZ
AIR 80/100 PSI
WATER 30/50 PSI
7.5 AMPS MAX TOTAL CONNECTED LOAD
THIS EQUIPMENT IS RATED TYPE I, CLASS B

CONFORMS TO UL STD. 544
CERTIFIED TO CAN/CSA - C22.2 NO. 125-M1984

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SECTION II - INSTALLATION (CONT)

4. TUBING CONNECTIONS

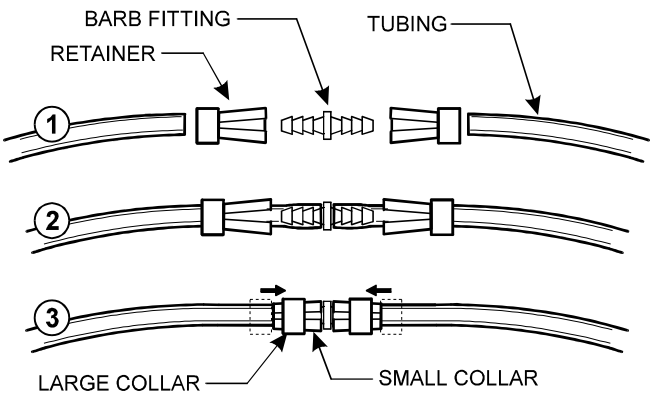
When connecting the umbilical tubings to the unit or other tubing, use the plastic retainers to secure the connection (Refer to Figure 2).

1/8" Tubing Connection

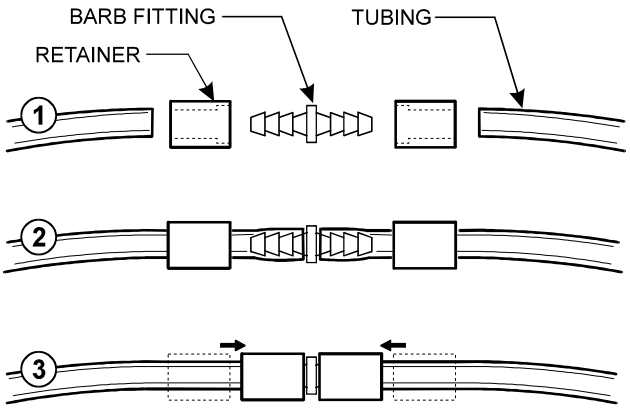
1. Slip the retainer (large end first) onto the tubing.
2. Push tubing onto the barb fitting and slide the retainer forward over the tubing on the barb fitting.
3. Break the large collar loose and slide it toward the fitting and over the small collar.

1/4" Tubing Connection

1. Slip the retainer onto the tubing with the large opening toward the end of the tubing.
2. Push the tubing onto the barb fitting.
3. Slide the retainer over the tubing on the barb fitting.



1/8" TUBING CONNECTION



1/4" TUBING CONNECTION

Figure 2

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SECTION II - INSTALLATION (CONT)

5. UMBILICAL TUBING CONNECTIONS TO THE UTILITIES CONNECTION BOX (J BOX)

Figure 3 shows the connections to be made inside the J box. Refer to installation plan 003-1190-00 supplied. This plan may be used as a template to locate the utilities for connection. The installation should be performed by a qualified technician.

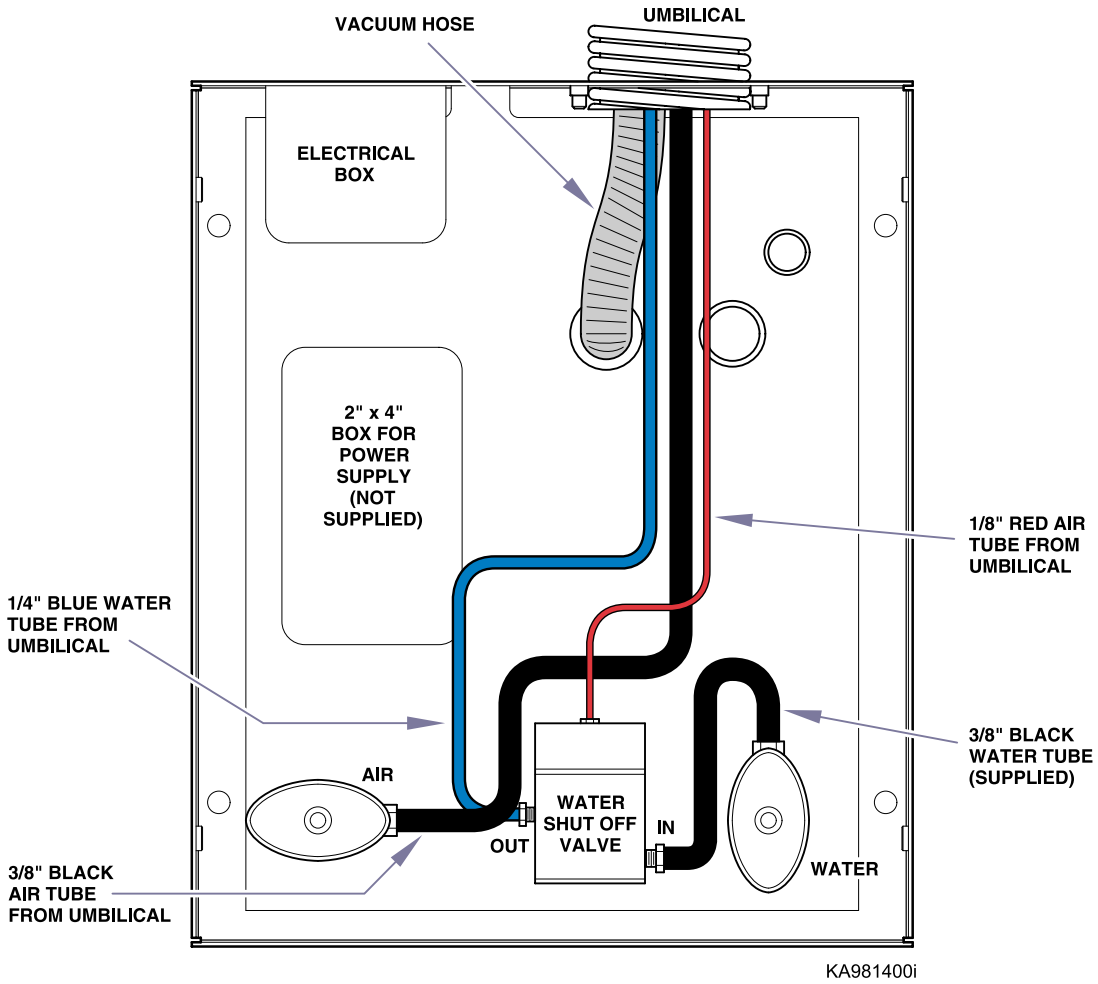

Figure 3

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SECTION III - FINAL CHECK LIST

When all the assembly and installation procedures are completed, the cart should be checked out in accordance with the following check list to ensure that assembly is complete and that all controls function properly.

- ☐ Check complete system for any air or water leaks.
- ☐ Check to make sure there is proper air and water flow .
- ☐ Make sure that the unit has been cleaned and that all dirt and finger prints have been removed.
- ☐ Be sure the person who will operate the unit receives the Operator's Manual and any other appropriate information or instructions.
- ☐ If any optional equipment has been installed, make sure it is properly installed and functioning as intended.

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DECLARATION OF CONFORMITY

MIDMARK CORPORATION

Midmark Corporation declares that SW and S-21 Dental Units conforms to the applicable requirements of the Medical Device Directive 93/42/EEC, Annex V and VII.

Serial Numbers: UA1278, UW01032, UC0971, and UK0148 to present.

Authorized Representative
Promotal
22 Rue De St. Denis
53500 Ernee
France

Notified Body
LRQA Limited
Hiramford
Middlemarch Office Village
Siskin Drive
Coventry CV3 4FJ
England

Certificate #: 961351/B

Quality Assurance Manager

Gene Harshbager
Midmark Corporation
60 Vista Drive PO Box 286
Versailles, OH 45380 U.S.A.
October 18, 1999

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Midmark Corporation • P O Box 286 • 60 Vista Drive
Versailles • Ohio • 45380-0286 • www.midmark.com
Phone: 937-526-3662 Fax: 937-526-5542